

04896

Interaction Between Uranium Hexafluoride  
and AmmoniaS/089/60/008/006/022/023/XX  
B006/B063

The results of a chemical analysis of the solid reaction products are collected in Table 1:

Reaction temperature      Degree of U-re-      Content of the components of the reaction  
duction %      products

	U		P	NH <sub>3</sub>
-50	50,9	61,3	30,5	7,8
-40	50,3	60,8	31,3	7,6
-30	50,6	61,6	30,4	7,7
-20	50,5	60,2	32,5	6,9
-15	64,4	58,7	33,9	7,2
-10	71,4	59,8	33,1	7,1
-5	73,8	60,0	32,8	6,8
0	77,5	62,9	30,2	6,7
+15	77,6	62,2	31,0	6,6
+25	77,7	63,2	29,7	6,7
+100	88,7	61,6	29,1	9,2
+150	90,1	62,0	29,3	8,9
+200	90,5	62,2	29,0	8,7

Table 1

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# Interaction Between Uranium Hexafluoride and Ammonia

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The thermal effect of the reaction was measured with a calorimeter shown in Fig.3:

1 - Dewar, 2 - outer wall of the calorimeter, 3 - inner wall of the calorimeter, 4 - mixer, 5 - heater, 6 - sleeve pipe made of heat-insulating material, 7 - distributor made of ebonite, 8 - quartz ampoule filled with liquid  $\text{NH}_3$ , 9 - solid  $\text{UF}_6$ , 10 - resistance thermometer, 11 - reaction bomb, 12 - heat insulator, 13 -  $\text{NH}_3$  vaporizer, 14 - solutions of  $\text{NH}_4\text{Cl}$ ,  $\text{NaCl}$ ,  $\text{ZnSO}_4$ ,  $\text{CaCl}_2$ , etc.

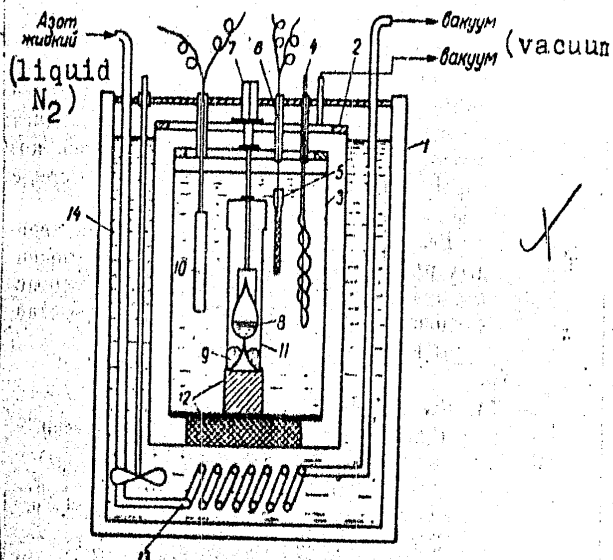


Fig.3

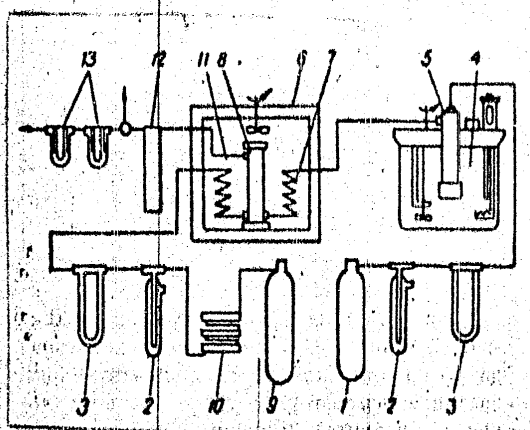
Card 4/6

84896

# Interaction Between Uranium Hexafluoride and Ammonia

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B006/B063

The  $\text{UF}_6$  -  $\text{NH}_3$  reaction in the gaseous phase was examined with the apparatus shown in Fig. 2:



- 1 - flask filled with argon,
- 2 - monostat, 3 - flowmeter,
- 4 - water thermostat, 5 -  $\text{UF}_6$  vaporizer, 6 - air thermostat,
- 7 -  $\text{UF}_6$  preheater, 8 - reactor,
- 9 - flask filled with ammonia,
- 10 - drying column filled with KOH, 11 -  $\text{NH}_3$  preheater,
- 12 - condenser, 13 - trap.

Fig. 2

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# Interaction Between Uranium Hexafluoride and Ammonia

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1 - distributor, 2 - reaction bomb,  
3 - solid  $UF_6$ , 4 - quartz ampoule  
containing liquid  $NH_3$ , 5 - holder  
of the ampoule, 6 - pressure gauge,  
7 - Dewar, 8 - solutions of  $NH_4Cl$ ,  
 $NaCl$ ,  $ZnSO_4$ ,  $CaCl_2$ , etc.

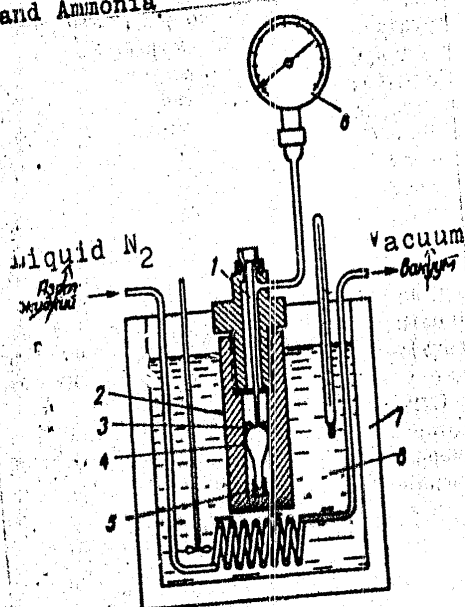


Fig.1

84896

8/089/60/008/006/022/023/XX  
B006/B063

21.3200  
AUTHORS: Galkin, N. P., Sudarikov, B. N., Zaytsev, V. A.  
TITLE: Interaction Between Uranium Hexafluoride and Ammonia ✓  
PERIODICAL: Atomnaya energiya, 1960, Vol. 8, No. 6, pp. 530 - 534 ✓  
TEXT: The authors studied the interaction between uranium hexafluoride and ammonia in the temperature range from -50 to +200°C for the purpose of determining the reaction equations at different temperatures and measuring the rates and thermal effects of the reactions. The reaction of uranium hexafluoride with liquid and gaseous ammonia was examined with an apparatus schematically shown in Fig.1: ✓

88001

S/065/60/000/010/005/010  
E030/E412

**Determination of the Frequency of Surface Combustion in Spark Ignition Engines**

order of one to five thousand per day. The variability of repeat results is of the order of 10%. The frequency of surface combustion in motor gasoline A-72 is increased 1.7 times, when it is leaded up to 2 mg/kg (using ethyl fluid P-9 (R-9)). However, it can be reduced to an exceedingly small value by adding, together with the leading, 0.5 mg/kg of TCP (tricresyl phosphate). There are 4 figures, 2 tables and 11 references: 4 Soviet and 7 non-Soviet.

Acknowledgments are expressed to N. P. Chernov and N. N. Demidov for their participation in the construction of the apparatus.

Card 2/2

88001

S/065/60/000/010/005/010  
E030/E412

11.7100

AUTHORS: Zaytsev, V.A. and Lerner, M.O.

TITLE: Determination of the Frequency of Surface Combustion  
in Spark Ignition Engines

PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1960. No.10,  
pp.31-34

TEXT: An apparatus has been constructed for determining the frequency of occurrence of surface combustion in spark ignition engines. The fuel is mixed with air at 50°C and fed to a standard WT-9 (IT-9) single-cylinder, 900 rpm, spark-ignition research motor, with a compression ratio of 7.5. The occurrence of surface combustion is determined by a radiometer adjacent to the cylinder wall. The whole determination lasts 24 hours, during which the total number of impulses due to surface combustion is recorded by the apparatus. The frequency of occurrence of surface combustion varies with time of running in a complicated and erratic way but the number of pulses integrated over 24 hours is a very reliable and sensitive measure. The number is of the

Card 1/2

The Extraction of the Salicylates of Scandium, Yttrium, SOV/156-59-1-19/54  
Cerium, Lanthanum, Uranium, and Thorium

values higher than 4, lanthanum salicylate at pH values higher than 4.5; cerium salicylate at pH values higher than 5.0 and thorium salicylate at pH values higher than 5.5. Uranium salicylate was extracted between pH 2.5 to 5.5, with higher pH values, however, a crystalline precipitate is formed which was analyzed as  $\text{NH}_4 \text{UO}_2(\text{HSal})_3 \cdot 4\text{H}_2\text{O}$ . A

straight line with the tangent of the inclination angle = 2 resulted from the coordinate system  $\lg(x) - \lg(\text{H}^+)$  with a constant salicylic acid concentration and from the system  $\lg(x) - \lg(\text{HSal})_{\text{org}}$  at a constant pH = 2.2. Thus 2  $\text{H}^+$  ions

are emitted in the reaction with salicylic acid. There are 3 figures and 10 references, 3 of which are Soviet. Kafedra tekhnologii radioaktivnykh i redkikh elementov Moskovskogo khimiko-tekhnologicheskogo instituta im. D.I. Mendeleeva (Chair of the Technology of Radioactive and Rare Elements of the Moscow Institute of Chemical Technology imeni D.I. Mendeleev)

ASSOCIATION:

SUBMITTED:  
Card 2/2

June 28, 1958



5(2)

## AUTHORS:

SOV/156-59-1-19/54

Sudarikov, B. N., Zaytsev, V. A., Puchkov, Yu. G.

## TITLE:

The Extraction of the Salicylates of Scandium, Yttrium, Cerium, Lanthanum, Uranium, and Thorium (Ekstraktsiya salitsilatov skandiya, ittriya, tseriya, lantana, urana i toriya)

## PERIODICAL:

Nauchnyye doklady vysshey shkoly. Khimiya i khimicheskaya tekhnologiya, 1959, Nr 1, pp 80 - 83 (USSR)

## ABSTRACT:

The work is an attempt to attain the separation of the elements mentioned by means of the extraction taking place with complex formation. The extraction was controlled by the radioactive isotopes

$\text{Sc}^{46}$ ,  $\text{Y}^{90}$ ,  $\text{Ce}^{141}$ ,  $\text{La}^{140}$ , and  $\text{Th}^{234}$ . Salicylic acid was chosen because it easily forms complex compounds with metals and is readily soluble in organic solvents. Isoamyl alcohol was used as a solvent. The distribution coefficient  $K$  of salicylates between the aqueous and organic phase was checked in dependence on the pH of the solution (Diagram). The following substances were quantitatively extracted: scandium salicylate at pH values between 3.3 - 5.5; yttrium salicylate at pH

Card 1/2

A New Method for the Synthesis of Mesityl Oxide and  
Methylisobutyl Ketone

SOV/64-58-5-4/21

the water was found to be optimal at 1:6. In the third stage of the process the mesityl oxide is separated by distillation. The product obtained is 96-98% without after-treatment, and with 80% of ammonia being used again; also, the acetone may be used again. The method as it was employed in an experimental plant is also described. The mesityl oxide obtained was transformed by a catalytic hydration with hydrogen at normal and increased pressure into methylisobutyl ketone. It was found that a 95% hydration may be reached with a Raney (Raney) nickel catalyst leached out at 105°. There are 4 tables and 18 references, 4 of which are Soviet.

1. Mesityl oxides--Synthesis    2. Hexone--Synthesis    3. Acetone  
--Condensation    4. Ammonia--Condensation

Card 2/2

**AUTHORS:** Grinevich, K. P., Candidate of Technical Sciences, Zaytsev, V. A., Candidate of Technical Sciences SOV/64-58-5-4/21

**TITLE:** A New Method for the Synthesis of Mesityl Oxide and Methylisobutyl Ketone (Novyy metod sinteza okisi mezitila i metilizo-butylketona)

**PERIODICAL:** Khimicheskaya promyshlennost', 1958, Nr 5, pp. 276 - 279 (USSR)

**ABSTRACT:** This paper describes a new method of synthesis which requires simple apparatus and makes possible a yield of up to 60% mesityloxide. It is based on the catalytic condensation of acetone with ammonia, and a subsequent hydrolysis of the 2,2,4,4,6-pentamethyl-2,3,4,5-tetrahydro pyrimidine formed as an intermediate product. The synthesis was carried out in the laboratory in three stages. In the first stage, the catalytic condensation, a temperature of 70-85° and a pressure of 8-10 atmospheres absolute pressure were applied and a yield of 72 to 74% was obtained. In the second stage, the hydrolysis of the intermediate product, it was observed that the amount of water used has a strong effect on the yield, and that the molar ratio between the intermediate product and

Card 1/2

ZAYTSEV, V.A.; LEDOKHOVICH, A.A.

Measuring humidity in low temperatures. Probl. Arkt. i Antarkt.  
no.19:15-21 '65. (MIRA 18:5)

ZAYTSEV, V.A.; LEDOKHOVICH, A.A.

Thermal nonuniformity and horizontal gradient of atmospheric temperature. Trudy GGO no.156:118-127 '64. (MIRA 17:10)

ZAYTSEV, V.A.

Calculating the parameters of the slipping process in friction  
elements of motor-vehicle transmissions. Trudy LPI no.237:34-42  
'64. (MIRA 18:4)

ZAYTSIY, V.A.

On S. Gamburg's article "Origin of the solar system." Zem. i vesl.  
1 no. 3:89 My-Je '65. (MIRA 18:8)

1. Chlen Vsesoyuznogo astronomo-geodeticheskogo obshchestva.

ZAYTSEV, V.A.; ZIZGANOVA, Ye.V.

Determination of the titer of solutions used in neutralization.  
Apt. delo 13 no.5:71-72 S-O '64. (MIRA 18:3)

1. Tsentral'nyy apotechnyy nauchno-issledovatel'skiy institut,  
Moskva.



L 10644-66

ACC NR: AP6002075

drops in the sequence  $-\text{OC}_2\text{H}_5>-\text{OC}_2\text{H}_5\text{-n}>-\text{OCH}_2-\text{CH}=\text{CH}_2>-\text{OCH}_3>-\text{OC}_4\text{H}_9$ .  
 2(2-(Ethoxy)-5-hexen-3-ynyl)cyclopentadienyltricarbonylmanganese improves the octane  
 rating by two numbers as compared with CTM. 4) Introduction of acyl or benzoyl  
 groups into the CTM molecule lowers its antiknock effectiveness. Orig. art. has:  
 1 fig. and 6 tables. [B0]

SUB CODE: 21/ SUBM DATE: 12Nov64/ ORIG REF: 003/ OTH REF: 002/ ATD PRESS:

4169

Card 2/2

L 10644-66	EWI (M)/T	WE/RM	
AC: NR.	AP6002075	SOURCE CODE:	UR/0204/65/005/006/0892/0896
AUTHOR:	Nesbreyanov, A. N.; Zaytsev, V. A.; Anisimov, K. N.; Lerner, M. O.; Kolobova, N. (e.); Poretskaya, A. P.; Magomedov, G. K.		
ORG:	Institute of Heterorganic Compounds AN SSSR (Institut elementoorganicheskikh soedineniy AN SSSR)		
TITLE:	Antiknock effectiveness of certain organomanganese compounds		
SOURCE:	Neftekhimiya, v. 5, no. 6, 1965, 892-896		
TOPIC TAGS:	antiknock compound, organomanganese compound, fuel additive		
ABSTRACT:	<p>The antiknock effectiveness of manganese carbonyl (MC) and of cyclopentadienyltricarbonylmanganese (CTM) derivatives was compared with that of CTM and tetraethyllead (TEL). The effectiveness of the individual organomanganese compounds in different concentrations was studied in various fuels by the standard motor method for determining the octane number. It was shown that for a given metal content in the fuel: 1) the antiknock effectiveness of MC in comparison with that of CTM and TEL is as follows: a) in automotive gasolines A-66 and A-72, lower; b) in a mixture of isooctane (60%) and heptane (40%), nearly the same; c) in the aviation gasoline B-95/130, lower. 2) The antiknock effectiveness of MC-CTM mixture in B-95/130 gasoline is equal to that of CTM. 3) The antiknock effectiveness of 2[2-(alkoxy)-5-hexen-3-ynyl]cyclopentadienyltricarbonylmanganeses depends on the alkoxy group and</p>		
Cord	1/2	UDC:	547.514.72'171.1:665.521.23

L 18225-63

ACCESSION NR: AT3001862

the pre-ignition processes, whereas FC and carbonyl products of Fe (IP and IP) act distinctly differently. It is concluded that the self-ignition tendency of a fuel-air mixture not only is not identical with its tendency toward detonation, but is not even single-valuedly related to it. Orig. art. has 6 figures.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 11Apr63

ENCL: 00

SUB CODE: CH, PR, PH

NO REF SOV: 005

OTHER: 002

Card 3/3

L 18225-63

ACCESSION NR: AT3001862

oxidation and, basically, act only on the development of the second stage of the pre-combustion process by shifting the boundary of the self-ignition of the hot combustion toward the side of higher temperatures and pressures. (b) Iron pentacarbonyl  $[(\text{FeCO}_5)]$  (hereinafter: IP) and  $[(\text{C}_8\text{H}_{16})_5\text{Fe}(\text{CO})_5]_3$  (hereinafter: IIP) inhibit sharply the initial stages of the pre-combustion reaction, shift the boundary of the formation of the cold flame toward higher temperatures and pressures, and reduce it in size so that in rich mixtures there is no region of cold-flame oxidation at all. The entire character of the pre-combustion oxidation is altered: The hot-explosion region is shifted toward higher pressures and temperatures, with the minimums appearing in the temperature range of 760 to 800°K. (c)  $\text{C}_{10}\text{H}_{16}\text{N}_2\text{O}_2\text{Cu}$  (hereinafter: III) appears to be somewhat intermediate between TE and IP, namely, it delays the beginning of the cold-flame oxidation, but to a smaller degree than IP, and gives the hot-detonation boundary a form that is similar to that afforded by IP (with a pressure minimum for rich mixtures); however, the detonation boundary lies much lower than with IP and, for lean mixtures, it may even be lower than for pure gasoline. Enrichment of the mixture with IP leaves the detonation boundary virtually unchanged, whereas with pure gasoline and all other additives it is displaced toward lower pressures. The peculiarities of a metal-organic antiknock additive are not determined by the presence in it of a specific metal. TE and FC contain different metals, but act almost identically on

Cord 2/3

L 18225-63 EPA/EPF(c)/EWT(m)/BDS AEDC/APFTC/ASD/APGC Paa-4/Pr-4 MN  
 ACCESSION NR: AT3001862 S/2909/62/000/006/0082/0093

AUTHORS: Voinov, A.I.; Fastova, K.N.; Zaytsev, V.A.; Chernov, N.P. 72

TITLE: Investigation of the effect of antidetonation additives on the processes that precede detonation in an engine  $\gamma^3$

SOURCE: AN SSSR, Institut dvigateley. Trudy, no. 6, 1962, 82-93

TOPIC TAGS: detonation, knock, antidetonation, antiknock, Fe, Cu, penta-carbonyl, dicyclopentadiene, dicyclopentadienyl, pre-ignition, self-ignition, cold flame, mixture, rich, lean

ABSTRACT: This paper describes an experimental investigation of the effects of various metal-organic antidetonation (antiknock) additives on the various stages of the pre-combustion process in an engine intended to determine the distinctive characteristics of the mechanism of their action. The test equipment and methodology are described, and the processing and evaluation of the test data are detailed. It is established that, for any given level of antiknock effectiveness, the various metal-organic compounds tested affect the other stages of the pre-combustion reaction differently. (a) Tetraethyl (TE) and "ferrocene" or iron dicyclopentadienyl (FC) do not exert any noticeable effect on the inception of the cold-flame

Card 1/3

RAYTSEV, V.A., starshiy nauchnyy sotrudnik, kand.farm.nauk

Use of complexometry in quantitative determination of organic  
pharmaceuticals. Sbor.nauch.trud. TSANII 2:101-113 '61. (MIRA 16:5)

1. Laboratoriya farmatsevticheskogo analiza (rukovoditel' laboratorii  
kand.khim.nauk M.I. Tarasenko) TSentral'nogo aptechnogo nauchno-  
issledovatel'skogo instituta.

(DRUGS--ADULTERATION AND ANALYSIS) (COMPLEXONS)

BENOV, P.L., prof.; ZAYTSEV, V.A.; YANKHONEN, E.N.

Principal Soviet and foreign pharmaceutical journals. Apt. dele 11  
no.1:83-87 Ja-F '62: (MIRA 15:4)

(PHARMACY---PERIODICALS)

ZAYTSEV, V.A.; CHERNIKOVSKAYA, T.Ya.

"Transactions of the All-Union Research Institute for Medicinal and Aromatic Plants (VILAR)". Part 11, 1959. Reviewed by V.A.Zaitsev, T.IA.Cherikovskaia. Apt. delo 10 no.4:91-92 J1-Ag '61. (MIRA 14:12)  
(BOTANICAL DRUG INDUSTRY)



ZAYTSEV, V.A.

Use of the reactions of nitrosation and complex formation for  
identifying  $\beta$ -naphthol and benzonaphthol. Apt. delo 10 no.3:  
43-46 My-Je '61. (MIRA 14:7)  
(NAPHTHOL)

ZAYTSEV, V.A.

Use of the complexonometric method in pharmaceutical analysis.  
Apt. delo 9 no. 5:91 S-O '60. (MIRA 13:10)  
(CHEMISTRY, MEDICAL AND PHARMACEUTICAL)

ZAYTSEV, V.A.

Colorimetric determination of nitroglycerin. Apt. d'elo 9 no.3:63-  
65 My-Je '60. (MIRA 14:3)  
(NITROGLYCERIN) (COLORIMETRY)

ZAYTSEV, V.A., aspirant

Complexonometric determination of bismuth in pharmaceutical preparations. Apt.delo 8 no.2:76-79 Mr-Ap '59.

(MIRA 12:5)

1. Iz kafedry farmatsevticheskoy khimii (zav. - prof.P.L.Senov)  
Moskovskogo farmatsevticheskogo instituta.  
(BISMUTH--ANALYSIS) (COLORIMETRY)

ZAYTSEV, V. A. Cand Pharm Sci -- (diss) "Application of the 'complexonometric' method in pharmaceutical analysis." Mos, 1959. 19 pp (1st Mos Order of Lenin Med Inst im I. M. Sechenov), 200 copies (KL, 43-59, 128)

ZAYTSEV, V.A., aspirant.

Use of trilon B in determining alkaloids. Report No.2: Determining  
pachycarpine iodide. Apt.delo 7 no.5:78-82 S-0'58 (MIRA 11:10)

1. Iz kafedry farmatsevticheskoy khimii (zav. - prof.P.I. Senov)  
Moskovskogo farmatsevticheskogo instituta Ministerstva zdravookhraneniya  
RSFSR.

(SPARTINE)

ZAYTSEV, V.A., aspirant

Quantitative determination of the lead cation. Apt.delo 7 no.3:21-23  
My-Je '58 (MIRA 11:7)

1. Iz kafedry farmatsevticheskoy khimii (zav. - prof. P.L. Senov)  
Moskovskogo farmatsevticheskogo instituta Ministerstva zdрави-  
okhraneniya RSFSR.  
(LEAD)

ZAYTSEV, V.A.

ZAYTSEV, V.A.

Use of complexons in pharmaceutical analysis. Apt.delo 7 no.1:71-78  
Ja-F '58. (MIRA 11:3)

1. Iz kafedry farmatsevticheskoy khimii (zav. - prof. P.L.Senov)  
Moskovskogo farmatsevticheskogo instituta Ministerstva zdravo-  
okhraneniya RSFSR.

(COMPLEX COMPOUNDS)

(DRUGS--ANALYSIS AND ADULTERATION)



ZAYTSEV, V.A.

GORIA INOVA, -N.S.; ZAYTSEV, V.A.

Complexometric determination of calcium salts in some drugs.  
Apt. delo 6 no.6:15-17 N-D '57. (MIRA 10:12)  
(CALCIUM SALTS) (DRUGS--ADULTERATION AND ANALYSIS)

ZAYTSEV, V.A.

Using trilon B in the determination of alkaloids. Report No.1:  
Determination of quinine hydrochloric. Apt.delo 6 no.4:48-51  
Jl-Ap '57. (MLRA 10:9)

1. Iz kafedry farmatsevticheskoy khimii (zav. - prof. P.L.Senov)  
Moskovskogo farmatsevticheskogo instituta zdravookhraneniya RSFSR.  
(TRILON B) (QUININE)

*Zaytsev V.A.*

ZAYTSEV, V.A., provizor (Moskva)

Studying the interaction of the action of monovalent mercury with  
pyramidon and its application in pharmaceutical analysis. Apt. delo  
6 no.3:59-60 My-Je '57. (MIRA 11:1)

(MERCURY) (AMINOPYRINE)  
(DRUGS--ADULTERATION AND ANALYSIS)

L 45281-66

ACC NR: AP6023570

2

of the torpedo electricians section, tells of the part played by his ship in protecting the landing operation from enemy ships and submarines. Sergeant I. Golub, commander of an air drop launcher ASU-57, reports on his assignment to effect an airborne landing in the rear of the enemy forces and describes the landing operation as seen from the air. Sergeant I. Nivolovich, head of a marine unit, describes the assault of his men in armored carriers landing directly from the ships. Lieutenant V. Zaytsev, commander of a motorized infantry platoon, reports on the operations of his group, which landed in armored cars and was assigned to the destruction of enemy rocket installations and the prevention of a nuclear hit on the advancing units. Orig. art. has: 6 figures. [GC]

SUB CODE: 01, 15, 05, 13/ SUBM DATE: none/

Card 2/2 *llh*

L 45281-66

ACC NR: AP6023570 (N) SOURCE CODE: UR/0401/66/000/007/0024/0027

AUTHOR: Pozhetskias, I. (Warrant officer); Amanbayev, M. (Petty officer first class); Dalakov, G. (Petty officer second class); Golub, I. (Junior sergeant); Nilovovich, I. (Sergeant, Commander of marine section); Zaytsev, V. (Lieutenant)

ORG: none

TITLE: Naval landing operations

SOURCE: Starshina-serzhant, no. 7, 1966, 24-27

TOPIC TAGS: landing operation, military personnel, armored carrier, armored car/ASU-57 air drop launcher, vehicle

ABSTRACT: The article consists of six individual reports made by various participants in a combined arms-landing operation during military training exercises. Warrant Officer I. Pozhetskias, Master Sergeant in charge of a ship's engine room, describes the duties of his crew and the hazards of his work. Petty Officer First Class, M. Amanbayev, radar operator, describes his work at the radar screen as the ship approaches the beach. Petty Officer Second Class, G. Dalakov, in charge

Card 1/2

ZAYTSEV, V., student

A magnetic shield protects against cosmic ray showers. Tekh.  
mol. 31 no.3:35-36 '63. (MIRA 16:6)

(Space vehicles) (Radiation protection)  
(Magnetic fields)

UZDENIKOV, A.; ALYUSHIN, M.T.; ZAYTSEV, V.; IVANOVA, V.M.; ZDRIN, Ye.

Resumes. Apt. delo 11 no.2:83-85 Mr-Ap '62.  
(PHARMACY--ABSTRACTS)

(MIRA 15:5)

KHARITONOV, V., inzh.; ZAYTSEV, V., inzh.

Power-propelled sunken-tree lifter. Rech. transp. 20 no.5:54-55  
My '61. (MIRA 14'5)

1. Verkhne-Volzhsкая inspektsiya Rechnogo Registra (for Kharitonov).
  2. Zavod imeni Ul'yanova-Lenina Ministerstva rechnogo flota (for Zaytsev).
- (Cranes, derricks, etc.) (Rivers--Regulation)



ZAYTSEV, V., kandidat tekhnicheskikh nauk; PAVLOV, Ye., inzhener.

Improved ice-making machinery manufactured by Italian firms. Khol.  
tekhn. 33 no.1:73-75 Ja Mr '56. (MIRA 9:7)  
(Italy--Ice--Manufacture)

ZAYTSOV, V., kand.tekhn.nauk

Improvements in ice manufacture, Khol.tekh. 35 no,5: 63-66 8-0  
'58. (MIRA 11:11)

(Italy--Ice--Manufacture)

KAYTSEV, V. (Kzyl-Orda); ALMANOV, B. (Kzyl-Orda).

~~WELCOME GUEST~~ Welcome guest. Kinomekhanik no.11:8-9 N '53. (MLRA 6:11)  
(Motion picture projection)

ZAYTSEV, V., kandidat tekhnicheskikh nauk; PAVLOV, Ye., inzhener.

Improved ice-making machinery manufactured by Italian firms. Khol.  
tekh. 33 no. 1:73-75 Ja Mr '56. (MIRA 9:7)  
(Italy--Ice--Manufacture)

ZAYTSEV, V.

Hemp

Further development of hemp cultivatio . Sots. sel'khoz. 23 no. 9, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952, UNCLASSIFIED.

ZAYTSEV, V., kandidat tekhnicheskikh nauk

Piloting an airplane. Kryl.rod. 3 no.9:15-17 8 '52. (MLRA 8:8)  
(Airplanes--Piloting)

ZAYTSEV, V.

Is there a need to verify Einstein's theories? Tekh.mol. 31  
no.5:7 '63. (MIRA 16:6)

1. Chlen literaturnogo ob'yedineniya zhurnala "Tekhnika molodezhi".  
(Relativity (Physics))

VINOGRADOV, R., kandidat tekhnicheskikh nauk; ZAYTSEV, V., kandidat  
tekhnicheskikh nauk

YAK-18 airplane. Kryl. rod. 3 no.1:22-24 Ja '52. (MLRA 8:8)  
(Airplanes)



S/029/63/000/003/002/002  
A004/A127

AUTHOR: Zaytsev, V., University Student

TITLE: Magnetic armor protects from cosmic showers

PERIODICAL: Tekhnika molodezhi, no. 3, 1963, 35 - 37

TEXT: The author deals with the subject of protecting interplanetary spacecraft from radioactive cosmic showers. He enumerates the possibilities of producing an efficient protection and then points out the most expedient and effective means, namely a magnetic "armor" consisting of a superconductivity winding that can be carried out in the form of a direct solenoid. Calculations have proved that the weight of the magnetic protection made of superconductivity materials available at present is considerably lower than that of e.g. a lead shield or any other absorbing protection. The author presents some details on the design and functioning of a magnetic protection system for spacecraft and a number of variations of the same basic system, i.e. with superconductivity materials. There are 4 figures.

Card 1/1

ZAYTSEV, V.; YAKOVLEV, A.

Washing machines should be of faultless construction. Sov. terg.  
36 no.11:8-13 N '62. (MIRA 16:1)

(Washing machines)

ZAYTSEV, V.

VINOGRADOV, R., inzhener-mayor; ZAYTSEV, V., inzhener-mayor.

Soviet all-metal airplanes. Vest.Vozd.Fl. 34 no.11:57-67 N '51.  
(Airplanes--Design and construction) (MLRA 8:3)

ZAYTSEV, V., Engr-Lt Col

Author of article, "Soviet Scientist and Weapons Designer," concerning Lt Gen, Arty Engr Serv, V. G. FEDOROV", written in honor of his 80th birthday, and telling of his life and work.  
(VV, No 5, May 54)

ZAYTSEV, V. G., Maj Gen

(See ALEKSANDROV, N. S.)

ZELENSKIY, P. P., Maj Gen

(See ALEKSANDROV, N. S.)

ZAYTSEV, V., kapitan dal'nego plavaniya

Dangerous maneuver; on turning when backing up during a storm.  
Nor. flot 15 no.6:10 Je '55. (MLRA 8:8)  
(Navigation)

VINOGRADOV, R.; ZAYTSEV, V.

Scientist-innovator. Kryl.rod. 2 no.6:10-11 Je '51.

(MLRA 8:8)

(Vetchinkin, Vladimir Petrovich, 1888-1950)

ZHODZISHSKIY, I., kand. tekhn. nauk; TARASENKO, P., inzh.; BRAUNSDORFER, I.,  
inzh.; ZAYTSEV, V., inzh.

Condition of the structural elements in an experimental apartment  
house made of monolithic three-dimensional elements. Zhil. stroi.  
no.11:6-9 '64 (MIRA 18:2)

IL'IN, V. (Frunze); ZAYTSEV, V. (Gylnakak, Dagestanskoy ASSR); YEFREMENKOV, M. (Serpukhov, Moskovskoy obl.); CHUGAYEVSKIY, N., inzh. (Moskovskaya oblast'); BRUKVA, N. (Kiyev); SYCHAYEV, S. (Mytishchi); YEVTEYEV, V. (Rostov-na-Donu)

Exchange of experience. Radio no. 4, 20, 33, 36, 39, 40, 53 Ap '65.  
(MIRA 18:5)



USSR/Cultivated Plants - Commercial. Oil-Bearing. Sugar-Bearing.

M-5

Abs Jour : Ref Zhur - Biol., No 20, 1958, 91740

Author : Orudzhev, A., Zaytsev, V.

Inst : Azerbaydzhan Cotton Scientific Research Institute

Title : An Experiment in Using of Winter Reserve Irrigation on Cotton in Azerbaydzhan.

Orig Pub : Khlopkovodstvo, 1957, No 12, 28-32.

Abstract : After the discontinuation of vegetative irrigation the soil moisture of the cotton fields in Azervaydzhan quickly drops to 55-65% of the field moisture capacity. Therefore, winter and spring water reserves are used. Experiments conducted by the Azervaydzhan Cotton Scientific Research Institute established the advantage of using winter water reserves in preference to the spring reserves

Card 1/2

SHUPIK, I., polkovnik; ZAYTSEV, V., polkovnik.

Korean People's Army. Voen. vest. 37 no.1:8-13 Ja '58. (MIRA 11:2)  
(Korea, North--Armed forces) (Korean War, 1950-1953)

ZAYTSEV, V., Geroy Sotsialisticheskogo Truda; PLATONOV, F., aspirant

Introducing over-all mechanization in field-crop production  
and in animal husbandry. Nauka i pered.op.v sel'khoz. 9  
no.8:5-7 Ag '59. (MIRA 12:12)

1. Predsedatel' kolkhoza "Pobeda, "Yal'chikskogo rayona,  
Chuvashskoy ASSR (for Zaytsev). 2. Vsesoyuznyy nauchno-issledovatel'-  
skiy institut ekonomiki sel'skogo khozyaystva (for Platonov).  
(Farm mechanization)

LASTIKOV, M., inzh.; ASHKINAZI, B., inzh.-mekhanik (Baku); BELEN'KAYA, L., inzh.; ZNAMENSKIY, A.; ZAYTSEV, V.; CHERNYATEVICH, K., tekhnik-elektrik.

Suggested, created, introduced. Izobr.1 rats. no.1:28-30 Ja  
'61. (MIRA 14:1)

1. Byuro ratsionalizatorov i izobretateley Pskovskogo oblastnogo upravleniya mestnoy promyshlennosti (for Lastikov). 2. Nachal'nik Byuro ratsionalizatorov i izobretateley, Leningrad (for Znamenakiy).
3. Starshiy inzhener Byuro ratsionalizatorov i izobretateley Dal'nevostochnogo parokhodstva, Vladivostok (for Zaytsev).
4. Dneprodzerzhinskly azotnotukovyy zavod (for Chernyatevich).  
(Technological innovations)

ZAYTSEV, V.; LERNER, M.; GUREYEV, A.; ZABRYANSKIY, Ye.; KITSKIY, B.

New antiknock compound for gasolines. Avt.transp. 40 no.1:17-19  
Ja '62. (MIRA 15:1)

(Gasoline--Antiknock and antiknock mixtures)

ZAYTSEV, V., starshiy leytenant

Radiomen in the field. Starsh.-serzh. no.4(7):12-13 Ap '61.  
(Radio, Military--Study and teaching)

BOGACHEVSKIY, Mikhail Borisovich, doktor ekonom. nauk; ZAYTSEV, V., red.;  
NAZAROVA, V., red. izd-va; ULANOVA, L., tekhn. red.

[Taxes in capitalist countries] Nalogi kapitalisticheskikh gosudarstv. Moskva, Izd-vo sotsial'no-ekon. lit-ry, 1961. 322 p.  
(MIRA 15:1)

(Taxation)

ZAYTSEV, V. (Tashkent)

In the Institute of Economics of the Academy of Sciences of the  
Uzbek S.S.R. Vop. ekon. no.5:150-152 My '62. (MIRA 15:6)  
(Uzbekistan--Economic research)



KRUCHENETSKIY, Ye. (Tashkent); ZAYTSEV, V., inzhener-tekhnolog (Tashkent)

Dispatcher's tags on luggage. Grazhd. av. 19 no.4:19 Ap '62.  
(MIRA 15:5)

1. Zamestitel' nachal'nika otdela perevozok Grazhdanskogo  
vozduhnogo flota, Tashkent (for Kruchonetskiy).  
(Airplanes-~~a~~Dispatching)

ZAYTSEV, V. (Moskovskaya obl., g. Babushkin)

Attachment to a television receiver for receiving radiobroadcasting  
stations. Radio no.5:41 My '62. (MIRA 15:5)  
(Television--Receivers and reception)

ZAYTSEV, V., podpolkovnik; ZHURBA, L., mayor

Prepare the unplanned fire more rapidly. Voen. vest. 44  
no.6:76-80 Je '64. (MIRA 17:6)

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S/106/62/000/001/001/009

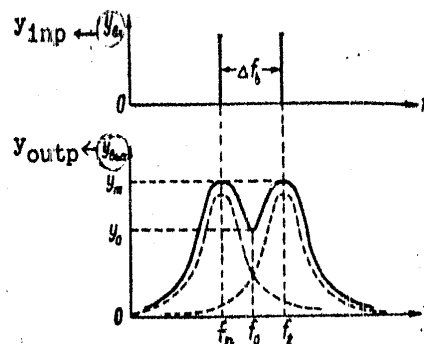
A055/A101

Examination of speech characteristics with ....

and discussed. At the end of the article, the author expresses his thanks to Mr. M.A. Sapozhkov. The Soviet personalities mentioned in the article are: A. A. Kharkevich and I.S. Gonorovskiy. There are 8 figures and 9 references: 2 Soviet-bloc and 7 non-Soviet-bloc.

SUBMITTED: February 23, 1961

Figure 1:



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A055/A101

# Examination of speech characteristics with ....

precision of the reproduction by the spectrograph of all the time variations of the analyzed spectrum. To obtain a high resolving power, both as regards frequency and time, it is necessary to use two filter circuits, a single circuit being insufficient. The setup time  $\tau_1$  of the process at the output of the band filter with passband  $\Delta f_n$  is determined from:  $\Delta f_n \tau_1 = 1$  (5). For a high time-resolving power, the inequality  $\Delta f_n \Delta t_p > 1$  must be satisfied, where  $\Delta t_p$  is the duration of the smallest speech-process pulse, equal to 0.02 sec. Experiments showed that the time resolving power is quite satisfactory at  $\Delta f_n \Delta t_p = 2$ . Substitution of  $\Delta t_p = 0.02$  gives  $\Delta f_n = 100$  c, which is the lower limit of the resolving power of the spectrum analyzer. It is expedient that the second filter should have a band wider than  $\Delta f_n = 100$  c. The author determines also the magnitude  $\gamma$  (frequency shift with respect to the resonant frequency of the circuit), which must be small enough, so that the resolving power of the spectrograph should not be perceptibly affected. In the second part of the article the dynamic spectrograph used by the author is described. It differs from the spectrograph described by Koenig, Dunn and Lacy (The Sound Spectrograph. IASA, 1946, no. 1) inasmuch as speech is registered on a magnetic band of any length, whereas the analysis of the registered speech is effected on any section of the band (without breaking the band). Some videograms and spectrograms are reproduced

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S/106/62/000/001/001/009  
A055/A101

24.1300 (1327,1482)

AUTHOR: Zaytsev, T.Ye.

TITLE: Examination of speech characteristics with a dynamic spectrograph

PERIODICAL: Elektrosvyaz', no. 1, 1962, 3 - 12

TEXT: This article is essentially a theoretical determination of the required value of the resolving power of dynamic spectrographs, this determination being based on the properties of the speech parameters. The determination is carried through with the aid of the formula:

$$\Delta f_b = \Delta f_n \sqrt{\left(\frac{2}{n}\right)^2 - 1}, \quad (3)$$

where  $\Delta f_b$  is the frequency interval between two equal-level spectral lines discriminated by the analyzer,  $\Delta f_n$  is the passband of the single circuit at 3 db-level and  $n$  is the ratio of the ordinate  $y_0$  of the saddle point to  $y_m$  (see Fig. 1). The required resolving power is determined in different cases (male and female speech). By analogy with the frequency resolving power, the author introduces the concept of the time resolving power, characterized by the degree of

Card 1/3

ZAYTSEV, T.Ye.

Study of the characteristics of the speech process using a dynamic  
spektrograph. Elektrosviaz' 16 no.1:3-12 Ja '62. (MIRA 15:2)  
(Speech) (Telecommunication)

SOV/106-58-10-6/13

A Correlation Method for the Determination of the Naturalness of  
Phonation and Clarity of Speech Transmitted over a Communication  
Channel

and the output, an electronic correlator and phase compensator (Fig 5). M.A. Sapozhkov, Doctor of Technical Sciences, advised in this work. There are 6 figures and 10 references, 8 of which are Soviet.

SUBMITTED: February 26, 1958

Card 5/5



SOV/106-58-10-6/13

A Correlation Method for the Determination of the Naturalness of  
Phonation and Clarity of Speech Transmitted over a Communication  
Channel

communication channel includes a carrier section, and the carrier is not strictly stabilised, then even with carrier shift of only 1 to 2 cycles per second, the correlator will show a coefficient of mutual correlation equal to zero, whereas the human ear notices no worsening. Therefore, in this case, it is necessary after division of the speech spectrum into the critical bands to obtain the correlated processes x and y by detection of the critical bands and subsequent modulation by them of strictly synchronised carrier frequencies. Apparatus for objective evaluation of the naturalness of speech must consist of two identical analyzing parts, connected to the input

Card 4/5

SOV/106-58-10-6/13

A Correlation Method for the Determination of the Naturalness of the  
Phonation and Clarity of Speech Transmitted over a Communication  
Channel

be determined. The author then develops an expression for the mutual correlation coefficient in a channel suffering linear and non-linear distortions in the presence of noise (Equation 9). The coefficient of mutual correlation between the input process  $x$  and the corresponding output process  $y$  can be measured by an electronic, continuously-acting correlator (Refs 7,8) which operates in accordance with the relationship

$$\varphi_{xy} = \lim_{T \rightarrow \infty} \frac{1}{T} \int_0^T y(t) x(t) dt. \quad (11)$$

The block diagram of the correlator is shown in Fig 1. It consists of a multiplier, two stabilizers of the mean square value of the input and output action, a phase-compensator and an integrator with apparatus for indicating the value of the mutual correlation coefficient. The circuits are shown in Figs 2, 3 and 4. If the

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A Correlation Method for the Determination of the Naturalness of  
Phonation and Clarity of Speech Transmitted over a Communication  
Channel

band and at intervals less than the width of one critical frequency  $\Delta f_{kp}$ , then the sound is perceived as consisting of discrete frequencies lying at the mean value of each of the critical bands. Due to the integrating properties of the ear the level of the frequency exceeds the level of the spectrum by a value  $k = 10 \log \Delta f_{kp}$  dB. The proposed apparatus, which is equivalent to the human ear, must determine the correspondence of the spectrum at the receiving end to the spectrum at the transmitting end in each critical band of the ear over the whole frequency range of speech at every instant of time. By the use of band-pass filters, the whole of the speech frequency band is broken up into bands equal to the widths of the critical bands of the ear. Then using a continuously-acting electronic correlator to measure the coefficient of mutual correlation between the input and the output processes in the separate bands, the correspondence between the process at the output and the process at the input can

Card 2/5

SOV/106-58-10-6/13

AUTHOR: Zaytsev, T.Ye.

TITLE: A Correlation Method for the Determination of the Naturalness of Phonation and Clarity of Speech Transmitted over a Communication Channel (O korrelyatsionnom metode opredeleniya natural'nosti zvuchaniya i razborchivosti rechi, peredavayemoy po traktam svyazi)

PERIODICAL: Elektrosvyaz', 1958, Nr 10, pp 38 - 46 (USSR)

ABSTRACT: In systems using analysis of the speech at the transmitting end and synthesis at the receiving end, a quick and objective method of measuring the naturalness of the transmitted speech is necessary to permit the equipment to be set up to its optimum operating condition. It is not always possible to obtain sufficiently accurate data by the tonal method (Ref 1). The apparatus described in the article enables the causes of loss of naturalness of speech under normal operating conditions to be analysed, objectively and quantitatively. The human ear consists of an assembly of resonators, each tuned to a particular small range of frequencies, the so-called critical bands. If the sound falling on the ear has a spectrum, the component frequencies of which are distributed over a wide

Card 1/5

ZAYTSEV, T.P., inzh-mekhanik, zasluzhennyy mekhanizator USSR.

For a wide introduction of mounted machinery and implements on collective farms. Mekh. sel'. hosp. 9 no.9:9-10 S '58.

(Agricultural machinery).

(MIRA 11:10)

ZAYTSEV, T.P., inzh.-mekhanik

Use of tractors during fall and winter. Mekh.sil'.hosp. 10  
no.11:11-12 N '59. (MIRA 13:3)  
(Tractors)

ZAYTSEV, T.M.

SHALOV, Ivan Ivanovich; ZAYTSEV, T.M., red.; KNAKNIN, M.T., tekhn. red.

[Shrinkage of knitted fabric] Usadka trikotazha. Moskva, Gos.  
nauchno-tekhn. iss-vo lit-ry po legkoi promyshl., 1958. 176 p.  
(Knit goods--Shrinkage) (MIRA 11:7)

247TSEKTR

YAKIMUK, P.G., inzhener-mekhanik; VASILYUK, N.F.; GAL'PERIN, L.Yu.;  
ZAYTSEV, T.F.; KARPEN'KO, S.A.; STEPANENKO, A.M.; YAVORSKIY, A.A.;  
SHAGOMYALO, V.I., redaktor; GURZHIY, M.Ye., tekhnicheskij redaktor

[Tractor operator's manual] Spravochnik traktorista. Izd. 4-oe,  
perer. i dop. Kiev, Gos. izd-vo selkhoz. lit-ry USSR, 1955. 519 p.  
(Tractors--Handbooks, manuals, etc) (MIRA 9:1)



ZAYTSEV, T.F.; KARPENKO, S.A.; NESVITSKIY, Ya.I., kandidat tekhnicheskoy  
nauk; STEPANENKO, A.N.; YAVORSKIY, A.A.; SHAGOMYALO, V.I.,  
redaktor; KRAVCHENKO, M.P., tekhnicheskoy redaktor

[Tractor brigade leader's manual] Spravochnik brigadira  
traktornoj brigady. Izd. 2-oe, dop. Kiev, Gos. izd-vo sel'khoz.  
lit-ry USSR, 1956. 483 p. (MLRA 10:4)  
(Tractors)

ZAYTSEV, T.F.

VASILYUK, N.F.; GAL'PERIN, L.Yu.; ZAYTSEV, T.F., KARPENKO, S.A.; STEPANENKO, A.N.; YAVORSKIY, A.A.; YAKIMUK, P.G., inzhener-mekhanik, redaktor; KOZAK, F.Ye., redaktor; CHEREVATSKIY, S.A., tekhnicheskij redaktor

[Handbook for tractor operators] Spravochnik traktorista. Izd. 5-oe, perer. i dop. Kiev, Gos. izd-vo sel'khoz. lit-ry USSR, 1956. 471 p.  
(Tractors) (MLRA 10:4)

ZAYTSEV, S. V.

Maral

Improved method of preserving velvet-bearing antlers of maral,  
Kar. i zver. 6 No. 1, 1953

Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

ZAYTSEV, S.S., agronom

For the high yield of grain and greats crops. Zemledelie 27  
no.6:34-36 Je '65. (MIRA 18:9)

1. Semliukskoye rayonnoye proizvodstvennoye upravleniye  
sel'skogo khozyaystva, Voronezhskoy oblasti.

ZAYTSEV, S.S., inzhener; KARACHUN, D.A., inzhener.; OVECHKO, V.L., inzhener,

Operation of a two-stage ash collector in connection with oil-shale  
firing. Energetik 5 no.2:1-4 F '57, (MLRA 10:3)  
(Dust collectors)

ZYSIN, V.A., kand. tekhn. nauk; ZAYTSEV, S.S., inzh.; PLATONOVA, S.G., inzh.;  
ENGLIKH, V.A., inzh.

Construction of an ejector system for a large furnace with a  
shaft-type impact mill. Teploenergetika 11 no.9:42-44 S '64.  
(RINA 18:8)

1. Leningradskiy politekhnicheskii Institut imeni M.I.Kalinina.

ZAYTSEV, S.S.

Subject : USSR/Electricity AID P - 710

Card 1/1 Pub. 29 - 3/26

Authors : Zaytsev, S. S., Eng. and Karachun, D. A., Eng.

Title : Firing of pechora coals in the unit system mill furnace  
of the PK-10 sh boiler

Periodical : Energetik, 9, 5-8, S 1954

Abstract : The article deals with 230 ton/hr high-pressure boilers,  
PK-10 sh type. The author describes how the furnace in-  
tended for burning peat and equipped with four unit  
system mills was remodeled to use pechora coals.  
4 diagrams.

Institution : None

Submitted : No date

ZAYYSEV, S.P.

Effect of some town-building factors on the construction economy  
of underground pipeline networks. Vod. i san. tekhn. no.5:1-5 My  
'60. (MIRA 13:10)

(Pipelines)



ZAYTSIN, S.P., kand. tekhn. nauk.

Modern construction of large diameter sewers. *Biul. stroi. tekhn.*  
15 no.4:13-18 Ap '58. (MIRA 11:5)

1. Nauchno-issledovatel'skiy institut gradostroitel'stva i rayonnoy  
planirovki.

(Sewers, Concrete)

ZAYTSKY, S.P., kandidat tekhnicheskikh nauk.

Technical and economic efficiency of laying combined pipeline systems.  
Gor. khoz. Mesk. 31 no.3:29-31 Mr '57. (MIRA 10:4)  
(Water pipes) (Sewer pipe) (Gas pipes)

ZAYTSEV, S.P., kandidat tekhnicheskikh nauk.

Technical and economic evaluation of laying engineering networks in house basements of individual residential blocks. *Biul. stroi. tekhn.* 14 no. 4:12-15 Ap '57. (MIRA 10:6)

1. Nauchno-issledovatel'skiy institut Gradostroitel'stva Akademii stroitel'stva i arkhitektury SSSR.  
(Water pipes)

ZAYTSEV, S.P., insbener.

Economic indicators for the evaluation of work production methods in  
underground pipe laying. *Biul.stroi.tekh.* 13 no.8:16-18 Ag '56.

(MLRA 9:10)

1.Nauchno-issledovatel'skiy institut Gradostroitel'stva.  
(Pipelines)

**ZAYTSEV, S.,** kandidat tekhnicheskikh nauk.

Precast reinforced concrete in building water mains for streams and small watercourses. Zhil.-kom.khoz. 5 no.7:21-22 '55. (MLRA 9:1)

(Culverts)

ZAYTSEV, S., kandidat tekhnicheskikh nauk

Technical and economic factors in laying underground pipelines  
in new cities. Zhil.-kom. khoz. 5 no.4:21-23 '55.  
(Pipelines) (MLRA 8:9)

ZAYTSEV, S.P.

PORFIR'YEV, M.M.; ZAYTSEV, S.P.; BREZHNEV, V.I., redaktor; RACHEVSKAYA, M.I., redaktor; PETROVSKAYA, Ye., tekhnicheskii redaktor.

[Underground engineering network of a city] Gorodskie inzhenernye podzemnye seti. Moskva, Izd-vo Ministerstva kommunal'nogo khoziaistva RSFSR, 1955. 148 p. (MLRA 9:1)  
(Civil engineering)

PESTOV, Georgiy Nikolayevich; ALTUF'YEVA, A.M., redaktor; ZAYTSEV, S.P.,  
redaktor; KONYASHINA, A., tekhnicheskij redaktor

[Laying of pipes and conduits without breaking the ground surface]  
Zakrytaia prokladka truboprovodov i kanalov. Moskva, Izd-vo Mi-  
nisterstva kommunal'nogo khoziaistva RSFSR, 1955. 145 p.  
(Pipelines) (MLRA 9:1)



PORFIR'YEV, M., kandidat tekhnicheskikh nauk; ZAYTSEV, S., kandidat tekhnicheskikh nauk.

Efficient distribution of engineering construction. Zhil.-kom. khoz. 3  
no.5:9-12 My '53. (MLRA 6:7)  
(Municipal engineering)

ZAITSEV, S. P.

Economic problems of water supply and canalization on  
collective farms. Gig. Sanit., Moskva no. 8:49-51 Aug.  
1950. (CML 20:1)

ZAYTSIV, S.M., inzh.

Technical and economic effectiveness of rated schemes of bearing construction elements. Trudy MIEI no.14:660-672 '59.  
(MIRA 13:1)

1. Moskovskiy inzhenerno-ekonomicheskiy institut.  
(Girders)